From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NEEDLE & ROSENBERG, P.C. Attn. FLOAM, D. Andrew Suite 1200 The Candler Building

OCT 0 2 Pnnn

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

Atlanta, GA 30303-1811 UNITED STATES OF AMERICA	NEEDLE A ROS	(PCT Rule 44.1)			
		Date of mailing (day/month/year)	28/09	9/2000	
Applicant's or agent's file reference 19141.0048P1		FOR FURTHER AC	TION	See paragraphs 1 and 4 below	
International application No. PCT/US 00/ 16576		International filing date (day/month/year)		5/2000	
Applicant SPECTRX, INC.					

1. [χ The app	licant is hereby r	notified that the International Search Report has been es	stablished and is transmitted herewith.
			and statement under Article 19:	
	The app	licant is entitled,	if he so wishes, to amend the claims of the Internationa	l Application (see Rule 46):
	When?	The time limit for	or filing such amendments is normally 2 months from the	e date of transmittal of the
		International Se	earch Report; however, for more details, see the notes of	on the accompanying sheet,
				DAFICHE
	Where?	Directly to the	International Bureau of WIPO	BAMERED
		-	34, chemin des Colombettes	
			1211 Geneva 20, Switzerland	A CONTRACT CONTRACTOR
			Fascimile No.: (41-22) 740.14.35	34.000 Data: 10/21
	For mor	a detailed instr	uctions, see the notes on the accompanying sheet.	
	10111101	e detaned mou	uctions, see the notes on the accompanying sheet.	KSYKSKSKI
				Name / Date
2.			notified that no International Search Report will be estal	olished and that the declaration under
L	- Article 1	/(2)(a) to that eff	ect is transmitted herewith.	
_	_			
3.	With reg	gard to the prote	est against payment of (an) additional fee(s) under Rul	e 40.2, the applicant is notified that:
_				
			with the decision thereon has been transmitted to the I	
	— ap₁	plicant's request	to forward the texts of both the protest and the decision	thereon to the designated Offices.
i			•	
	· —			
	∐ no	decision has be	en made yet on the protest; the applicant will be notified	as soon as a decision is made.
4 E	urther actio	n(e). The anni	licant is reminded of the following:	
7. 1	dittici actio	in(s). The app	ican is reminded of the following.	
S	hortly after 1	8 months from t	he priority date, the international application will be pub	lished by the International Bureau.
			oid or postpone publication, a notice of withdrawal of the	
-			International Bureau as provided in Rules 90bis.1 and	
	completion of	of the technical p	reparations for international publication.	
		·	·	
_ V			ority date, a demand for international preliminary exami	
	wishes to po	stpone the entry	into the national phase until 30 months from the priority	y date (in some Offices even later).
1.0	//#hin 00	adha fuan dha	arity, data, the configurat much perform the assessible of an	to for onto, into the national phase
V			ority date, the applicant must perform the prescribed ac	
			which have not been elected in the demand or in a late	ei election within 19 months from the
	priority date	or conia not be	elected because they are not bound by Chapter II.	

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Marie-Françoise Provot

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the international Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 19141.0048P1	FOR FURTHER see Notification of (Form PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/US 00/16576	15/06/2000	18/06/1999		
Applicant				
SPECTRX, INC.				
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Autlansmitted to the International Bureau.	hority and is transmitted to the applicant		
This International Search Report consists X It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.		
Basis of the report With regard to the language, the	international search was carried out on the bas	sis of the international application in the		
	ess otherwise indicated under this item.			
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	he international application furnished to this		
 b. With regard to any nucleotIde an was carried out on the basis of the 		nternational application, the international search		
☐ ∞ntained in the internatio	nal application in written form.			
	rnational application in computer readable for	n.		
	furnished subsequently to this Authority in written form.			
	this Authority in computer readble form.			
	sequently furnished written sequence listing d s filed has been furnished.	oes not go beyond the disclosure in the		
the statement that the info furnished	rmation recorded in computer readable form is	s identical to the written sequence listing has been		
2. Certain claims were four	nd unsearchable (See Box I).			
3. Unity of invention is laci	dng (see Box II).			
4. With regard to the title,				
the text is approved as su	bmitted by the applicant.			
the text has been establis	hed by this Authority to read as follows:			
_				
5. With regard to the abstract,				
X the text is approved as sui	bmitted by the applicant.			
the text has been establish	hed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep			
6. The figure of the drawings to be publi	shed with the abstract is Figure No.	4		
as suggested by the applic	cant.	None of the figures.		
because the applicant faile	ed to suggest a figure.			
because this figure better	characterizes the invention.			

INTERNATIONAL SEARCH REPORT

Internati	onal	Application N
F	μs	00/16576

A. CLASSIF	10 4 TIO 11			
A. CLASSII	-IC.A LICIN (III SIII	LIECT	ИАТТЕР
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TPC 7	461R			

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \qquad A61B$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of decument with indication when any side of the second	51
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 33444 A (TRANSMEDICA INTERNATIONAL INC) 6 August 1998 (1998-08-06)	1,2,7,8, 13-20, 22,23, 28-30, 38,39,41
*	page 16, line 35 -page 17, line 25 page 18, line 30 -page 19, line 17 page 21, line 3 - line 27 page 31, line 23 -page 32, line 12 page 39, line 7 - line 29 page 46, line 25 -page 47, line 9	30,39,41

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 21 September 2000	Date of mailing of the international search report 28/09/2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mollenhauer, R

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INTERNATIONAL SEARCH REPORT

	Internationa	Application No
١	US	00/16576

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	oration or document, with indication, where appropriate, or the relevant passages	Herevant to claim No.
X	WO 98 51235 A (GEN HOSPITAL CORP ; PALOMAR MEDICAL TECHNOLOGIES I (US)) 19 November 1998 (1998-11-19)	1,2, 4-10, 13-18, 22,38,39
Y -	page 8, line 4 - line 31 page 10, line 4 - line 14 page 17, line 19 -page 18, line 6 page 21, line 26 -page 22, line 7	3
X	WO 97 22384 A (LASER IND LTD) 26 June 1997 (1997-06-26) page 10, line 18 - line 26; claim 7;	1,2, 13-17, 19,20, 38,39,41
	figure 8	
X	WO 94 01904 A (BEYER CRAIG F) 20 January 1994 (1994-Q1-20)	1,7,8, 13,19, 20, 37-39,41
	page 4, paragraph 3 - paragraph 4 page 5, paragraph 3 -page 6, paragraph 1 page 8, paragraph 1	
X	US 5 586 981 A (HU XIN-HUA) 24 December 1996 (1996-12-24)	1,2, 13-20, 38,39,41
	column 5, line 20 - line 29	
X	US 5 437 658 A (MULLER DAVID F ET AL) 1 August 1995 (1995-08-01)	1,2,13, 19,20, 38,39,41
	column 4, line 17 - line 38	
Υ	US 4 826 269 A (STREIFER WILLIAM ET AL) 2 May 1989 (1989-05-02) abstract	3
A	US 5 643 252 A (FLOCK STEPHEN T ET AL) 1 July 1997 (1997-07-01) cited in the application the whole document	1-42
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***TERNATIONAL SEARCH REPORT

02-05-1989

01-07-1997

International Application No on patent family members US 00/16576 Patent document **Publication** Patent family **Publication** cited in search report date member(s) date 06-08-1998 WO 9833444 Α ΑU 5917398 A 25-08-1998 BR 9807816 A 08-03-2000 CN 1251508 T 26-04-2000 EP 1006902 A 14-06-2000 US 6056738 A 02-05-2000 WO 9851235 19-11-1998 ΑU 7568698 A 08-12-1998 EP 0991372 A 12-04-2000 WO 9722384 Α 26-06-1997 ΑU 704892 B 06-05-1999 ΑU 1071097 A 14-07-1997 BR 9612145 A 13-07-1999 04-11-1998 EP 0874666 A US 09-02-1999 5868732 A US 5879346 A 09-03-1999 GB 2308307 A 25-06-1997 WO 9401904 20-01-1994 AU 4773093 A 31-01-1994 US 5586981 24-12-1996 NONE US 5437658 01-08-1995 ΑU 5323494 A 26-04-1994 EP 0741545 A 13-11-1996 23-04-1996 JP 8503625 T WO 9407424 A 14-04-1994

NONE

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24-05-1994

16-08-1995

11-05-1994 24-11-1998

24-02-1998

AU

ΕP

WO

US

JP

US 4826269

US 5643252

Α

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			ation of Transmittal of Interna	
EB 5784	FOR FURTHER ACTION	Preliminary	Examination Report (Form I	PCT/IPEA/416)
International application No.	International filing date (day/month	n/year)	Priority date (day/month/ye	ear)
PCT/US00/16576	15/06/2000		18/06/1999	
International Patent Classification (IPC) or nat A61B18/20	tional classification and IPC			
1.61516/26				
Applicant				
SPECTRX, INC. et al.				
This international preliminary exami		d by this Inter	national Preliminary Exa	mining Authority
and is transmitted to the applicant a	ccording to Afficie 36.			
2. This REPORT consists of a total of	9 sheets including this cover s	hoot		
2. This field of the consists of a total of	o onecto, moldaring this cover s	neet.		
☐ This report is also accompanied				
	is for this report and/or sheets o 7 of the Administrative Instruction			nis Authority
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		· · · · · · · · · · · · · · · · · · ·		
3. This report contains indications relat	ting to the following items:			
· I 🛛 Basis of the report				
II □ Priority				
	pinion with regard to novelty, inv	entive step a	and industrial applicability	′
IV ☐ Lack of unity of inventio V ☒ Reasoned statement un		u :		- 12 1- 121
	der Article 35(2) with regard to a ns suporting such statement	novelty, inver	nive step or industrial ap	plicability;
VI	d	•		
VII ⊠ Certain defects in the in				
VIII ⊠ Certain observations on	the international application			
	•			
Date of submission of the demand Date of completion of this report				
05/01/2001	24.07.20	001		
Name and mailing address of the international preliminary examining authority:	Authoriz	ed officer		LINE & GOVES PATENTALLY
European Patent Office		- 0		Talons (Vo
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656	epmu d Fische	r, O		Sample of the state of the stat
Fax: +49 89 2399 - 4465	Telephor	ne No. +49 89	2399 2327	33DHM-30H

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/16576

1.	Basis of the report						
	the an	e receiving Office in	ments of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" to this report since they do not contain amendments (Rules 70.16 and 70.17)):				
	1-1		as originally filed				
	Cla	aims, No.:					
	1-4		as originally filed				
	Dra	awings, sheets:					
	1/7	-7/7 °	as originally filed				
2.	Wit lan	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.					
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:				
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pu	blication of the international application (under Rule 48.3(b)).				
		the language of a to 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule				
3.	Witi inte	h regard to any nuc rnational preliminan	leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:				
		contained in the int	ternational application in written form.				
		filed together with t	the international application in computer readable form.				
	☐ furnished subsequently to this Authority in written form.						
	☐ furnished subsequently to this Authority in computer readable form.						
			the subsequently furnished written sequence listing does not go beyond the disclosure in ϕ				
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.				
4.	The	amendments have	resulted in the cancellation of:				
		the description,	pages:				
	□ ·	the claims,	Nos.:				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/16576

		the drawings,	sheets:
5.			established as if (some of) the amendments had not been made, since they have been yond the disclosure as filed (Rule 70.2(c)):
	•	(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this
6.	Add	litional observations, i	f necessary:

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims

No: Clain

Claims 1, 2, 4, 6-14, 17-20, 22, 23, 28-30, 32, 38, 39, 41

Inventive step (IS)

Yes: Claims

No: Claims

3, 5, 15, 16, 21, 24-27, 31, 33-36, 40, 42

Industrial applicability (IA)

Yes:

Claims 1-

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: WO-A-98 33444 (TRANSMEDICA INTERNATIONAL INC) 6 August 1998

D2: WO-A-98 51235 (THE GENERAL HOSPITAL CORP; PALOMAR MEDICAL

TECHNOLOGIES INC.) 19 November 1998

D3: WO-A-97 22384 (LASER IND LTD) 26 June 1997

D4: WO-A-94 01904 (BEYER CRAIG F) 20 January 1994

D5: US-A-5 586 981 (HU XIN-HUA) 24 December 1996

D6: US-A-5 437 658 (MULLER ET AL) 1 August 1995

D7: US-A-4 826 269 (STREIFER WILLIAM ET AL) 2 May 1989

2. The subject-matter of claims 1, 2, 4, 6-14, 17-20, 22, 23, 28-30, 32, 37-39 and 41 is not new in the sense of Article 33 (2) PCT.

2.1 Claims 1 and 38

Document D1 discloses a light beam generation and focusing device for directing at least one focused beam of light at a surface plane (p.11, I. 20-23), said device comprising: a light source constructed and arranged to emit at least one beam of light ("laser beam"); and a lens assembly constructed and arranged to focus said at least one beam of light on the surface plane (p. 11, l. 28-29); said device being constructed and arranged to sequentially direct the at least one beam of light to at least two spaced locations on the surface plane (p. 16, l. 35 - p. 17, l. 25 and p. 21, l. 4-20).

2.2 Claim 2

D1 shows a device according to claim 1, wherein the lens assembly comprises a collimating lens positioned with respect to the at least one beam of light (p. 35, I. 7-13 and fig. 3) and a focusing lens spaced from the collimating lens (p. 38, l. 16-18 and fig. 3).

2.3 Claims 4 and 6

The device of D1 may comprise a laser diode as light source (p. 17, l. 1-4). It is common knowledge that such a laser diode includes a micro lens mounted thereon.

2.4 Claims 7 to 12

The light source of D1 may be a laser diode or a semiconductor laser diode chip (p. 17, l. 1-4).

As seen in point 2.3 above, a laser diode usually includes a micro lens, in the particular case a cylindrical micro lens.

In D1 the laser diode is in a casing and a focusing lens is affixed to the casing and spaces from the laser diode (p. 35, I. 7-13 and p. 38, I. 16-18 and fig. 3). Moreover, a collimating lens is affixed to the laser diode and the focusing lens is spaced from the collimating lens (fig. 3).

2.5 Claims 13, 14 and 39

The device of D1 comprises a beam steering device constructed and arranged to direct said at least one beam of light to said at least two spaced locations on the surface plane (p. 16, l. 35 - p. 17, l. 25 and p. 21, l. 4-20).

The beam steering device ("scanner") is made up of optical components and is able under machine (i.e. drive) control to direct the beam to a first site and than to a second spaced site (p. 21, l. 4-20). Therefore a beam steering device according to claim 14 is disclosed.

2.6 Claims 17 and 18

D1 shows a scanner being controlled by microprocessor to sequentially direct the beam to several spaced locations (p. 21, l. 4-20 and fig. 43). Hence D1 discloses a controller coupled to the beam steering device ("scanner"), said controller being constructed and arranged to control the movement of the beam steering device to sequentially direct the beam of light to at least two spaced locations on the surface plane. The beam steering device comprises a beam steering optical element in the

form of a tilted or angled plane ("oscillating mirrors") (p. 17, l. 21-25).

2.7 Claims 19 and 20

The device of D1 is constructed and arranged to sequentially direct the beam of light to at least four spaced locations on the surface plane in a predetermined pattern and these spaced locations define a predetermined pattern thereon (fig. 43).

2.8 Claims 22 and 23

In D1, the light source and the lens assembly are fitted within a housing (p. 31, l. 23 - p. 32, l.12 and fig. 1), the housing being sized and shaped to fit in the hand of a device user (p. 8, l. 16-21). The device of D1 further comprises a power supply within said housing for powering said light source (p. 31, l. 23-29).

2.9 Claim 28 to 30 and 32

D1 discloses a diode bar containing up to ten laser diodes on a single chip (p. 46, l. 25-34). Therefore, the device of D1 can be said to have a light source comprising at least two laser diodes mounted on a mounting block, in particular a light source comprising four spaced laser diodes mounted on a common mounting block. The laser diodes can be said to be spaced from one another to form a predetermined pattern of beams of light directed to a surface plane.

2.10 Claim 37

As seen for claim 17 (point 2.5 above), the device of D1 has a controller constructed and arranged to sequentially direct said at least one beam of light to said at least two spaced locations on the surface plane (p. 21, l. 4-20).

2.11 Claims 38, 39 and 41

As a consequence of points 2.1, 2.5 and 2.7 above, the method steps according to claims 38, 39 and 41 are also anticipated by the disclosure of D1 (Article 33 (2) PCT).

- 2.12 It should be noted that the following documents also anticipate the subject-matter of claim 1 (Article 33 (2) PCT):
 - D2 shows a light beam generation and focusing device for directing at least one focused beam of light at a surface plane, said device comprising: a light source constructed and arranged to emit at least one beam of light (p. 8, l. 4-31); and a lens assembly constructed and arranged to focus the beam of light (p. 10, l. 4-14); said device being constructed and arranged to sequentially direct the beam of light to at least two spaced locations on the surface plane (p. 21, l. 26 p. 22, l. 7 and fig. 12B).
 - D3 shows a light beam generation and focusing device according to claim 1 (p. 10, l. 18-26 and fig. 8).
 - D4 also anticipates the subject matter of claim 1 (p. 4, third and fourth paragraphs).
 - D5 (col. 5, I. 21-28) and D6 (col. 7, I. 7-13; col. 8, I. 66 col. 9, I. 16; figs. 1-4B) also disclose a device according to claim 1.
- 3. The subject-matter of claims 3, 5, 15, 16, 21, 24-27, 33-36, 40 and 42 does not involve an inventive step within the meaning of Article 33 (3) PCT.

3.1 Claims 3 and 5

Document D7 (see abstract) shows a light beam generation and focusing device comprising a light source and a lens assembly, wherein the lens assembly may comprise Fresnel lenses or cylindrical lenses. Accordingly the subject-matter of claims 3 and 5 does not involve an inventive step (Article 33 (3) PCT).

3.2 Claims 15 and 16

A drive means comprising a stepper motor is a straightforward possibility which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, especially as the advantages thus achieved can readily be foreseen. Moreover in D1, the optical element of the beam steering device is a tilted or angled

plane ("oscillating mirrors", p. 17, l. 21-25). It is also obvious that a motor needs a motor controller coupled to it.

Hence, the subject-matter of claims 15 and 16 lacks an inventive step (Article 33 (3) PCT).

3.3 Claims 21 and 42

Fig. 43 of D1 shows a pattern of illuminated spots spaced equidistantly one from another on the skin (see also p. 17, I. 11-20). The skilled person would select the specific spacing according to circumstances without exercising inventive skills (Article 33 (3) PCT).

3.5 Claims 24 and 25

In D1 the beam steering device is not positioned within said housing. It is obvious that the skilled person wishing to improve the handling of the device would include the beam steering device within the housing.

It is obvious that the various components (power supply, light source and beam steering device) need to be controlled in a certain manner. Therefore, the skilled person wishing to improve the handling of the device would obviously include all the components within the same housing.

3.6 Claims 26, 27 and 40

In D1 a beam steering device is used to direct multiple beams, derived from a single laser beam, to different spaced locations on the skin. The feature of using at least two laser diodes (i.e the step of emitting at least two separate beams) is merely an equivalent of the solution disclosed in D1 and could therefore not involve an inventive step (Article 33 (3) PCT).

The feature of a controller coupled to each laser diode is also an obvious measure.

3.7 The remaining dependent claims 31, 33 to 36 are obvious design features which do not involve an inventive step (Article 33 (3) PCT).

EXAMINATION REPORT - SEPARATE SHEET

Re Item VII

Certain defects in the international application

- 1. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D2 is not mentioned in the description, nor are these documents identified therein.
- 2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Re Item VIII

Certain observations on the international application

- 1. Claims 20 and 21 relate to matter which is not part of the invention ("at least four spaced locations on the surface plane"), therefore the matter for which protection is sought is not clear from these claims (Article 6 PCT). These claims should therefore be deleted.
- 2. The dependency of claim 30 leads to a lack of clarity within the meaning of Article 6 PCT. It appears that claim 30 should be dependent from claim 28 rather than from claim 29.

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

THOMSON, Paul A. POTTS, KERR & CO NOTIFICATION OF TRANSMITTAL OF 15 Hamilton Square THE INTERNATIONAL PRELIMINARY Birkenhead **EXAMINATION REPORT** Merseyside CH41 6BR (PCT Rule 71.1) **GRANDE BRETAGNE** Date of mailing (day/month/year) 24.07.2001 Applicant's or agent's file reference EB 5784

IMPORTANT NOTIFICATION

International application No. PCT/US00/16576

International filing date (day/month/year) 15/06/2000

Priority date (day/month/year) 18/06/1999

Applicant

SPECTRX, INC. et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

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PALENT COOPERATION TREAT

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
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Date of mailing (day/month/year)

05 April 2001 (05.04.01)

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International application No.
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International filing date (day/month/year)
15 June 2000 (15.06.00)

Applicant

KUMAR, Krishna et al

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1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	05 January 2001 (05.01.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

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